82	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material,free from mortar drops and other foreign matter cost of materials,labour,complete as per specificiations.....second floor								
	grid F to G & grid 1,2 & 3	SQM	4.00	5.00		3.50	70.00		
	grid 1 to 3 & grid F & G		3.00	6.00		3.50	63.00		
	parapet wall								
	grid A to G & grid 1		1.00	21.10		1.20	25.32		
	grid 1 to 4 & grid A		1.00	7.20		1.20	8.64		
	grid A to B & grid 4 & grid E to F & grid 4		2.00	4.55		1.20	10.92		
	grid 3 to 4 & grid F		1.00	3.50		1.20	4.20		
	arch		1.00	10.50		1.20	12.60		
	ceilling								
	head room		2.00	5.50	2.50		27.50		
	beams(200*450)		4.00	5.50	0.33		7.15		
			2.00	5.50	0.20		2.20		
			2.00	6.00	0.33		3.90		
			1.00	6.00	0.20		1.20		
							✓ 236.63	100.00	23,663.00
83	providing and fixing stainless steel staircase railling as per chief architect drawing no.11520/HSRSC with hand rail 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage,stainless steel vertical pipe spaced at 1.2m regular intervals,and 5 nos of 25mm dia.stainless steel hollow horizontal pipe welded to vertical 50mm dia hollow pipe. the entire assembly is fixed to staircase concrete by expansion bolts by drilling concrete etc..,complete including cost of materials,labour,HOM of machineries and electrical charges,etc., complete as per specifications.								
		SQM							
	staircase area		2.00	12.00		1.20	28.80		
	door side		2.00	2.50		1.20	6.00		
	entrance arch						✓ 34.80	ಪ್ರತಿ 5,800.00	2,01,840.00
84	providing and fixing factory made single leaf rigid GRP sandwich composite door shutter of 40mm thick, laminated with two GRP skins with wood grain finish,fabricated using U.V-stabilized isophalic gelocoat and one layer of 450grms E-glass chopped strand mat (CSM),Impregnated with orthopthalic polyester resin, the thickness of the skins shall not be less than 1.5mm.expanded polystyrene (EPS) structural foam panel of 37mm thickness and a density of 20kg/m3 shall be used as core material.wooden reinforcements made of seasoned salwood block of cross section not less than 36mm*32mm and also necessary salwood reinforcements for fixing the metal fitting such as tower bolts,aldrops,handles,etc.shall be provided, a structural adhensive compatible with EPS foam shall be used for bonding the core material, the salwood reinforcement and the skins. the material and process for manufacturing the door shutters shall confirm to RV-TIFAC composites design centre standards and specifications and the door shutters tested in conformation to IS 4020-1 994.THE FINISH OF SHUTTER WILL BE PLAIN COLOUR WHITE/ivory/Beige/light grey								
	D	SQM	2.00	0.90		2.50	4.50		
	D		2.00	0.90		2.50	4.50		
							✓ 9.00	4,000.00	36,000.00
85	providing and fixing factory made single leaf rigid GRP sandwich composite door shutter of 40mm thick, laminated with two GRP skins with wood grain finish,fabricated using U.V-stabilized isophalic gelocoat and one layer of 450grms E-glass chopped strand mat (CSM),Impregnated with orthopthalic polyester resin, the thickness of the skins shall not be less than 1.5mm.expanded polystyrene (EPS) structural foam panel of 37mm thickness and a density of 20kg/m3 shall be used as core material.wooden reinforcements made of seasoned salwood block of cross section not less than 36mm*32mm and also necessary salwood reinforcements for fixing the metal fitting such as tower bolts,aldrops,handles,etc.shall be provided, a structural adhensive compatible with EPS foam shall be used for bonding the core material, the salwood reinforcement and the skins. the material and process for manufacturing the door shutters shall confirm to RV-TIFAC composites design centre standards and specifications and the door shutters tested in conformation to IS 4020-1 994.THE FINISH OF SHUTTER WILL BE PLAIN COLOUR WHITE/ivory/Beige/light grey (FIRST FLOOR)								
		SQM							
			2.00	0.90		2.50	4.50		
	D		2.00	0.90		2.50	4.50		
	D1						✓ 9.00	4,000.00	36,000.00

Structural Strengthening Solutions | Quality Control / Assurance / Audit

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87	KSRB 9.4-2 : providing honne wood frames of doors,windows,ventilators & other frames,wrought,framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps),but including cost of materials,labour,HOM of machineries complete as per specifications.								
		Cum							
	D		1.00	6.00	0.13	0.10	0.08		
	D1		9.00	6.50	0.13	0.10	0.73		
							✓ 0.81	1,14,980.50	92,703.03
88	KSRB 9-1 0.1 : providing and fixing in position honne wood class-II fully pannelled shutters for doors,styles and rails of 35mm.thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick,4mm thick plain glass,fixed with beading 15mm wide and thickness to finish with shutters surface including cost of materials,labour,HOM of macheneries complete as per specifications.(excluding cost of fixtures)								
	D	SQM	3.00	0.90		2.10	5.67		
	D1		9.00	0.90		2.55	20.66		
							✓ 26.33	5,000.00	1,31,625.00
89	Providing & fixing in position anodised aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame of size 61.85*31.75mm bottom section 1.2mm thick,weight 0.695kg/m,sides and top section 1.3mm,thick,weight 0.695kg/m,shutter comprising top and bottom section of size 40mm*18mm,wall thickness 1.25mm,weight 0.417kg/m,shutter outer side 40mm*18mm,wall thickness 1.25mm,weight 0.417 kg/m,shutter interlock section 40mm*26.7mm wall thickness 1.1mm,thick,weight 0.469kg/m,the shutter mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.,providing and fixing 5.5mm,thick plainglass for shutters fitted with rubber beading all aluminium sections powered coated to a minium of 60-70 microns with exterior durable pur polyester grade powder of approved quality including cutting to required length,joints mitred subdividing the frame tennoved and riveted,in the assembled frame,stiffened with end clips for corners,angles etc.,and fixed to the walls,lintels,floor beams/cills as the case may be, with necessary steel screws,raul plugs								
	ground floor	SQM							
	W1		3.00	3.00	1.35		12.15		
	W2		5.00	1.20	1.35		8.10		
	W3		2.00	0.60	1.35		1.62		
	V		2.00	0.90	1.35		2.43		
	V1		2.00	1.20	1.35		3.24		
							✓ 27.54	4,000.00	1,10,160.00
90	Providing & fixing in position anodised aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame of size 61.85*31.75mm bottom section 1.2mm thick,weight 0.695kg/m,sides and top section 1.3mm,thick,weight 0.695kg/m,shutter comprising top and bottom section of size 40mm*18mm,wall thickness 1.25mm,weight 0.417kg/m,shutter outer side 40mm*18mm,wall thickness 1.25mm,weight 0.417 kg/m,shutter interlock section 40mm*26.7mm wall thickness 1.1mm,thick,weight 0.469kg/m,the shutter mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.,providing and fixing 5.5mm,thick plainglass for shutters fitted with rubber beading all aluminium sections powered coated to a minium of 60-70 microns with exterior durable pur polyester grade powder of approved quality including cutting to required length,joints mitred subdividing the frame tennoved and riveted,in the assembled frame,stiffened with end clips for corners,angles etc.,and fixed to the walls,lintels,floor beams/cills as the case may be, with necessary steel screws,raul plugs								
	FIRST FLOOR	SQM							
	W		2.00	3.60		1.35	9.72		
	W1		2.00	3.00		1.35	8.10		
	W2		8.00	1.20		1.35	12.96		
	W3		4.00	0.60		1.35	3.24		
	V		3.00	1.20		1.35	4.86		
	V1		2.00	0.60		0.90	1.08		
	W4		1.00	1.30		3.50	4.55		
							✓ 44.51		
	Tender Quantity						28.08		
	Upto 125%						35.10	4,000.00	1,40,400.00
	Above 125 %						9.41	4,737.83	44,582.98
	SR 2016-17 Pg no: 33 Item No: 7.10.1								
	Basic Rate :	3818							
	Area Weightage (8%) :	305.44							

30/11/16

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು

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	Total:	4123.44							
	T.P (14.90%) :	614.39							
	Grand Total:	4737.83							
91	Providing & fixing in position anodised aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame of size 61.85*31.75mm bottom section 1.2mm thick,weight 0.695kg/m,sides and top section 1.3mm,thick,weight 0.695kg/m,shutter comprising top and bottom section of size 40mm*18mm,wall thickness 1.25mm,weight 0.417kg/m,shutter outer side 40mm*18mm,wall thickness 1.25mm,weight interlock section 40mm*26.7mm wall thickness 1.1mm,thick,weight 0.469kg/m,the shutter mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.,providing and fixing 5.5mm,thick plainglass for shutters fitted with rubber beading all aluminium sections powered coated to a minium of 60-70 microns with exterior durable pur polyester grade powder of approved quality including cutting to required length,joints mitred subdividing the frame tennoved and riveted,in the assembled frame,stiffened with end clips for corners,angles etc.,and fixed to the walls,lintels,floor beams/cills as the case may be, with necessary steel screws,raul plugs								
	SECOND FLOOR	SQM							
			2.00	1.20		1.35	3.24	4,000.00	12,960.00
92	Applying priming coat over new wood surfaces and I wood based surfaces with white lead paint priming including preparing the surfaces after thoroughly cleaning oil,grease,dirt and foreign matter,sand preparing and knotting ready mix paint including cost of materials,labour,complete as per specifications.								
		SQM							
	D		6.00	0.90		2.30	12.42		
	D1		8.00	0.90		2.70	19.44		
	door face (front) D		6.00	2.10		0.13	1.58		
	D1		8.00	2.55		0.13	2.55		
							✓ 35.99	100.00	3,598.50
93	Applying priming coat over new wood surfaces and I wood based surfaces with white lead paint priming including preparing the surfaces after thoroughly cleaning oil,grease,dirt and foreign matter,sand preparing and knotting ready mix paint including cost of materials,labour,complete as per specifications.FIRST FLOOR								
	D1	SQM	6.00	0.95		2.70	15.39		
			6.00	0.95		0.13	0.71		
			6.00	2.70		0.13	2.03		
							✓ 18.13	100.00	1,812.75
94	Applying priming coat over new wood surfaces and I wood based surfaces with white lead paint priming including preparing the surfaces after thoroughly cleaning oil,grease,dirt and foreign matter,sand preparing and knotting ready mix paint including cost of materials,labour,complete as per specifications.SECOND FLOOR								
	D	SQM	4.00	0.95		2.70	10.26		
			4.00	0.90		0.13	0.45		
			4.00	2.70		0.13	1.35		
							✓ 12.06	100.00	1,206.00
95	Providing and applying painting two coats (excluding priming coat) on new wood surface and /or wood based surface with enamel paint to give an even shade,cleaning the surface of all dirt,dust and foreign matter,sand papering including cost of materials,labour,complete as per specifications.								
	D	SQM	6.00	0.90		2.30	12.42		
	D1		8.00	0.90		2.70	19.44		
	door face (front) D		6.00	2.10		0.13	1.58		
	D1		8.00	2.55		0.13	2.55		
							✓ 35.99	100.00	3,598.50
96	Providing and applying painting two coats (excluding priming coat) on new wood surface and /or wood based surface with enamel paint to give an even shade,cleaning the surface of all dirt,dust and foreign matter,sand papering including cost of materials,labour,complete as per specifications. first floor								
	D1	SQM	6.00	0.95		2.70	15.39		
			6.00	0.95		0.13	0.71		
			6.00	2.70		0.13	2.03		
							✓ 18.13	100.00	1,812.75

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97	Providing and applying painting two coats (excluding priming coat) on new wood surface and /or wood based surface with enamel paint to give an even shade,cleaning the surface of all dirt,dust and foreign matter,sand papering including cost of materials,labour,complete as per specifications. second floor								
		SQM	4.00	0.95		2.70	10.26		
	D		4.00	0.90		0.13	0.45		
			4.00	2.70		0.13	1.35		
							12.06	100.00	1,206.00
98	KSRB 7.9:Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats or M.S square rods,or combination of M.S flats and sqare rods as per approved design,drawing including cutting steel sections and welding the same required pattern with a coat of red lead primer,cost of materials,fixtures,labour and HOM of machinery complete as per specifications. ground floor								
		KGS							
	W1		3.00	3.00		1.65	14.85		
	W2		2.00	1.35		1.65	4.46		
	W3		1.00	0.75		1.65	1.24		
	W5		2.00	0.75		1.65	2.48		
	V		2.00	1.20		1.65	3.96		
	V1		1.00	0.90		1.65	1.49		
							29.05		
							610.00	100.00	61,000.00
99	KSRB 7.9:Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats or M.S square rods,or combination of M.S flats and sqare rods as per approved design,drawing including cutting steel sections and welding the same required pattern with a coat of red lead primer,cost of materials,fixtures,labour and HOM of machinery complete as per specifications. First floor								
		KGS							
	W		2.00	3.60		1.65	11.88		
	W1		2.00	3.00		1.65	9.90		
	W2		8.00	1.20		1.65	15.84		
	W3		2.00	0.60		1.65	1.98		
	V		2.00	0.60		0.60	0.72		
	V1		1.00	0.90		0.60	0.54		
	W4		1.00	1.30		3.50	4.55		
							45.41		
							810.00		
	Tender Quantity						604.81		
	Upto 125%						756.01	100.00	75,601.25
	Above 125 %						53.99	96.79	5,225.69
	SR 2016-17 Pg no: 32 Item No:7.9								
	Basic Rate :	78							
	Area Weightage (8%):	6.24							
	Total:	84.24							
	T.P (14.90%) :	12.55							
	Grand Total:	96.79							
100	KSRB 7.9:Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats or M.S square rods,or combination of M.S flats and sqare rods as per approved design,drawing including cutting steel sections and welding the same required pattern with a coat of red lead primer,cost of materials,fixtures,labour and HOM of machinery complete as per specifications. second floor								
	W1	KGS							
			2	1.3		1.35	3.51		
			2	0.9		0.7	1.26		
							4.77		
							100.00	100.00	10,000.00
101	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil,grease,dirt and other foreign matter,including cost of materials,labour,complete as per specifications.								
	W								
	W1	SQM	2.00	3.60		1.35	9.72		
	W2		8.00	3.00		1.35	32.40		
	W3		28.00	1.20		1.35	45.36		
	V		16.00	0.60		1.35	12.96		
			16.00	0.90		1.35	19.44		

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V1		9.00	1.20		1.35	14.58		
W4		2.00	1.20		3.55	8.52		
Gate		2.00	4.00		2.50	20.00		
rolling shutter		2.00	7.50		4.00	60.00		
collapsable gate		2.00	2.20		2.50	11.00		
Tender Quantity						233.98		
Upto 125%						84.24		
Above 125 %						105.30	120.00	12,636.00
SR 2016-17 Pg no: 121 Item No: 15.74						128.68	101.76	13,094.48
Basic Rate :	82							
Area Weightage (8%):	6.56							
Total:	88.56							
I.P (14.90%) :	13.20							
Grand Total:	101.76							
102	KSBB13-8.5 : Providing and fixing to wall,ceiling,and floor,low density polyethylene pipes 6.00 kgf/sq.cm working pressure 140mm outside diameter with special flange compression type fitting,wall clips,making good the wall,ceiling and floor including cost of all materials,labour charges,HOM of equipments and testing,excluding cost of fittings, complete as per specifications.							
		RMT	1.00	15.00			15.00	400.00	6,000.00
103	providing and laying intergal cement based waterproofing treatment including preparation of surface as required for treatment of of roofs balconies,terraces etc., constisting of i) applying and grouting a slurry coat of neat cement coat using 2.75kg/smt of cement and mixed with proprietary water proofing compound conforming to IS 2645 over the RCC slab including cleaning the surface before treatment.ii)Laying cement concrete using broken well saturated brickbats 25mm to 100mm size with 50% of CM 1:5 cement 43 grade and mixed with proprietary waterproofing compound confirming to IS 2645 to required slope, and treating similarly adjoining walls upto 300mm height including rounding of junction walls/slabs. The brickbats are to be flooded with standing water for two days and the dissolved brick bats are to be replaced with well burnt standard brick bats.iii) After two days of proper curing applying a second coat of cement slurry admixed with proprietry waterproofing compound confirming to IS 2645 iv) finishing the surface with 20mm thick jointless CM 1:4 admixed with proprietry waterproofing compound confirming to IS 2645 and finally finishing the surface with trowel with neat cement.							
		SQM							
	terrace floor		1.00	20.00		7.60	152.00		
	head room		1.00	5.50		4.90	26.95		
	enterance arch		1.00	13.00		2.70	35.10		
							214.05	1,000.00	2,14,050.00
104	Providiing and laying heavy duty cobble stones 60mm the interlock pavers using cement and course sand for manufacture of blocks of approved size shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thk sand bed(average thickness) and compacting with plate vibrator having 3 tons compaction with plate vibrater having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints final compaction of [avers surface joints into its final level, including cost of materials, labour, HOM of nachineries complete as per specifications.							
		SQM	1.00	19.00		8.43	160.17		
			1.00	7.60		8.00	60.80		
			1.00	5.50		8.00	44.00		
							264.97	1,000.00	2,64,970.00
									1,08,85,725.00

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER
ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ
ಬ್ಬಿಪಪ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

EXECUTIVE ENGINEER

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